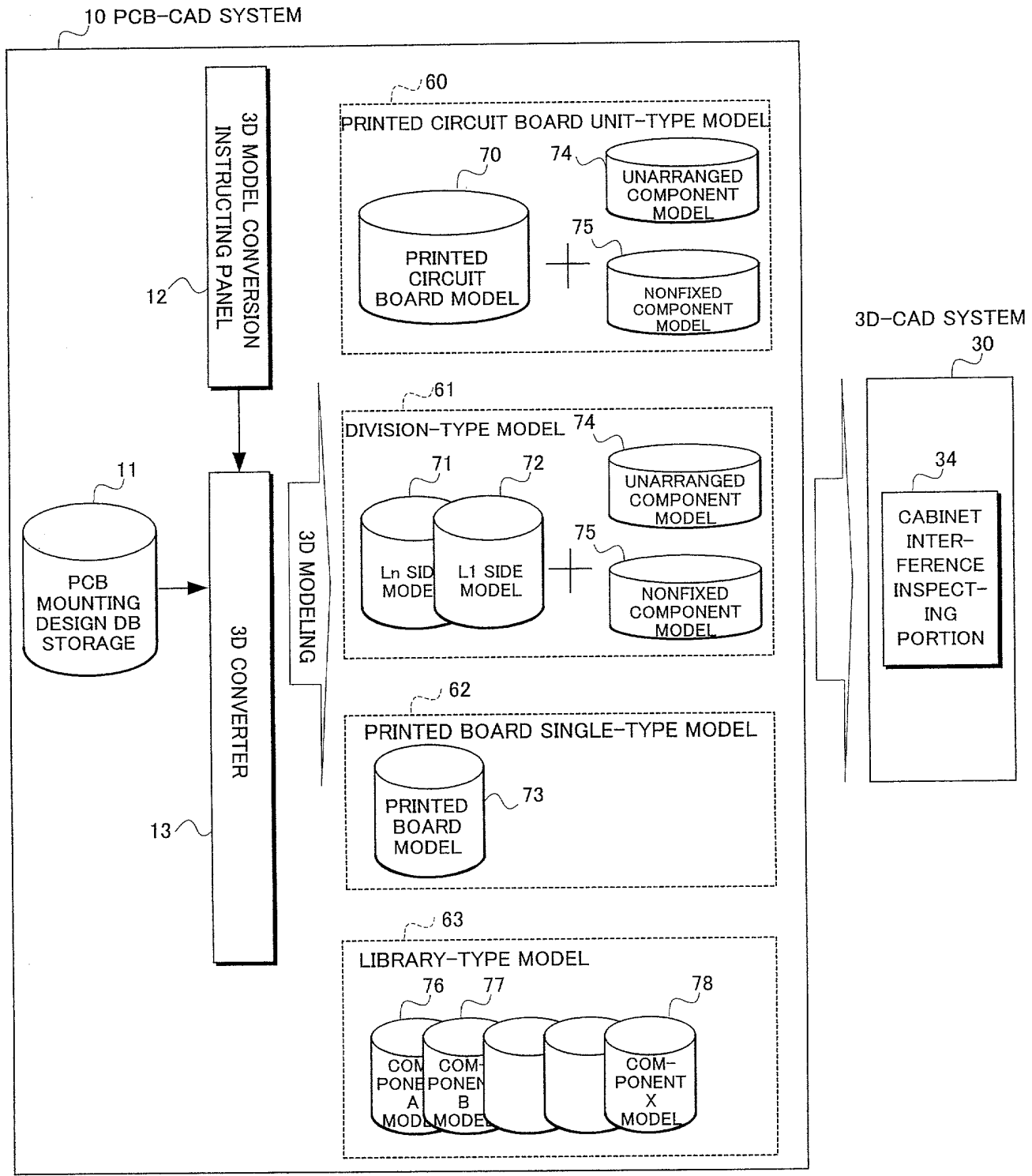


FIG. 1



[illegible]

FIG.3

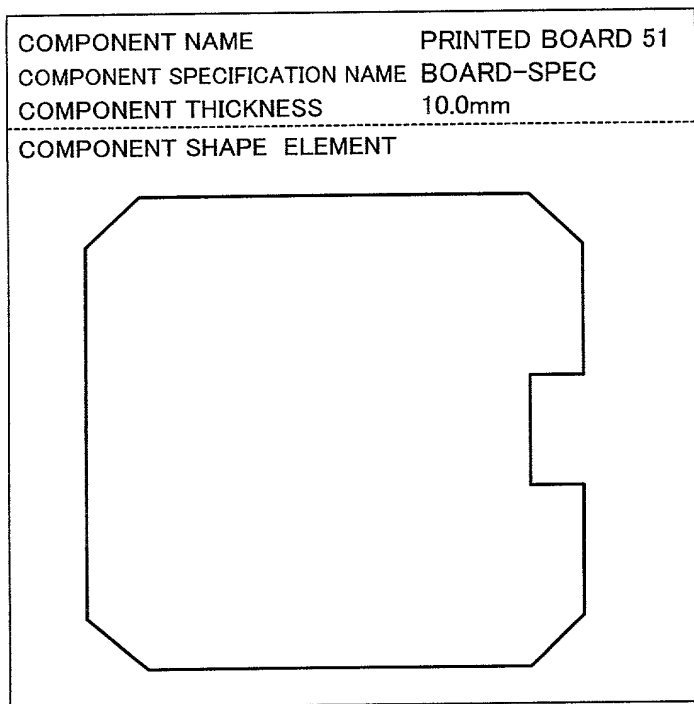


FIG.4

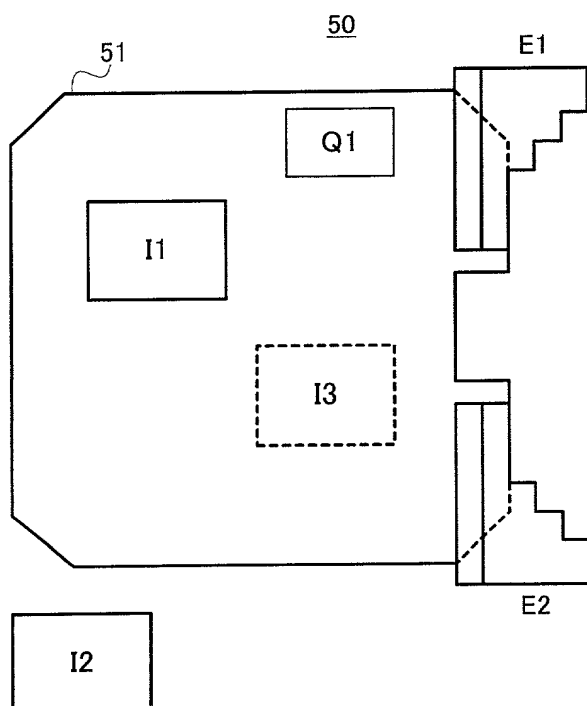


FIG.5

12

(1) 3D OUTPUT MODEL : ☐ SURFACE ☐ WIRE FRAME

(2) LIB PREPARATION MODE : ☐ ON ☐ OFF

☐ COMPONENT NAME  
☐ COMPONENT SPECIFICATION

(3) PRINTED CIRCUIT BOARD CONVERSION : ☐ UNIT-TYPE ☐ DIVISION-TYPE

☐ L1/Ln ☐ COMPONENT NAME  
☐ PRINTED BOARD

(4) UNARRANGED COMPONENT IMPORT : ☐ ON ☐ OFF

(5) COMPONENT SHAPE DETAILING MODE : ☐ ON ☐ OFF

☐ MECHANICAL COMPONENT  
☐ COMPONENT DESIGNATION

(6) MANUFACTURABILITY CONSIDERATION : ☐ ON ☐ OFF

SMD:0.3mm IMD:0.5mm

(7) PSEUDO COMPONENT CONVERSION : ☐ ON ☐ OFF

COMPONENT HEIGHT H=0.1mm

(8) LINEAR APPROXIMATION OF CIRCLE/ARC : ☐ ON ☐ OFF

APPROXIMATION NUMBER:3

FIG.6

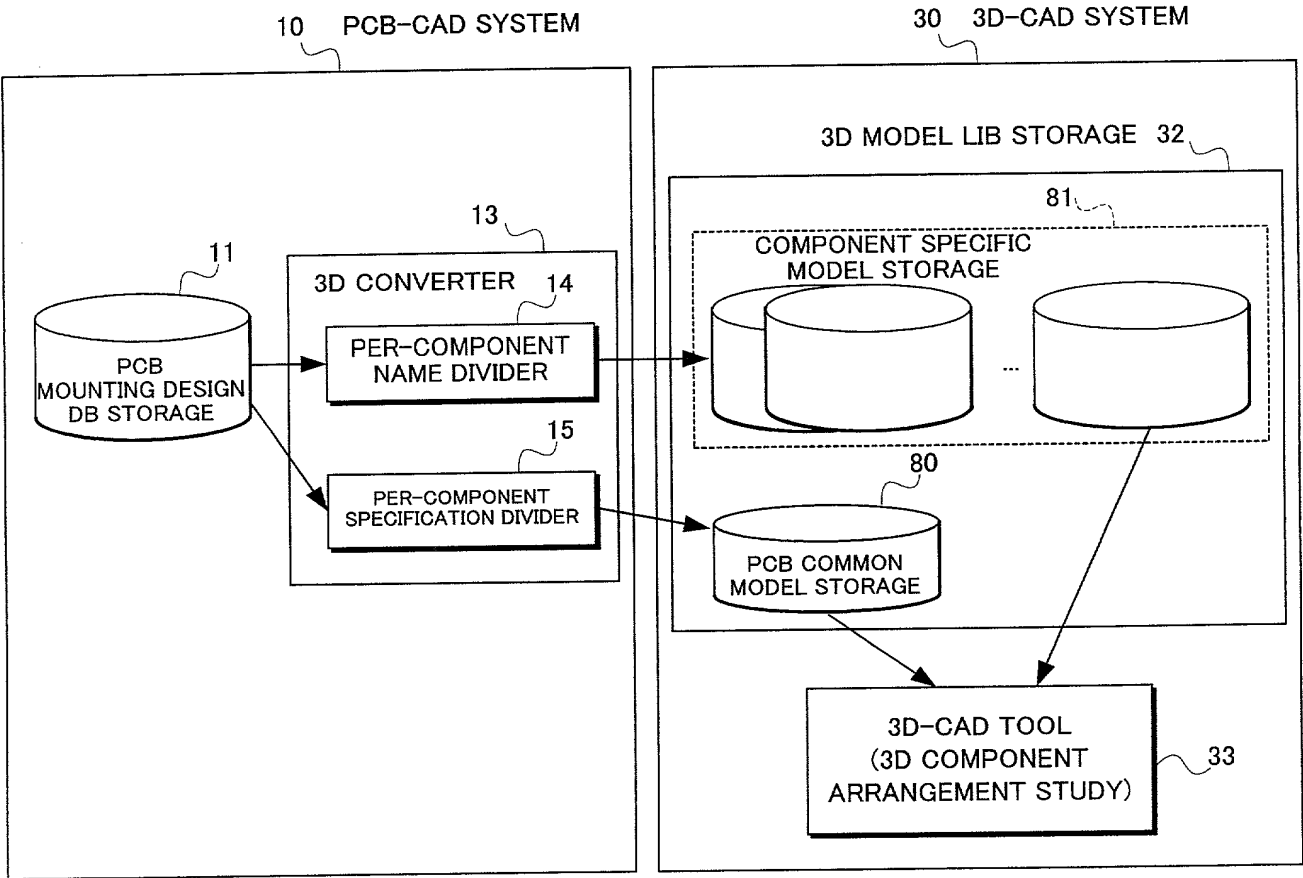


FIG. 7

## PCB-CAD: COMPONENT ARRANGEMENT START

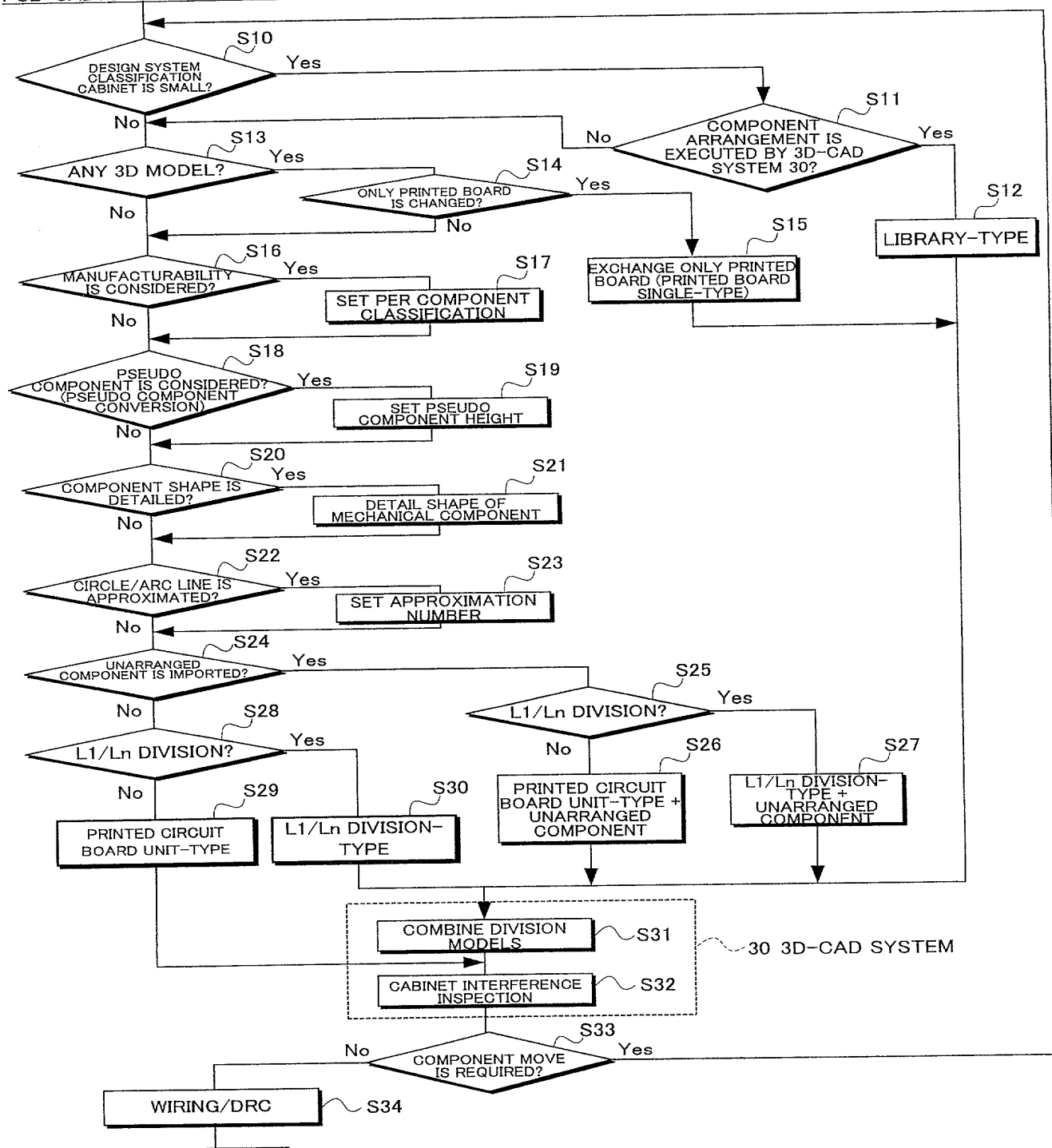
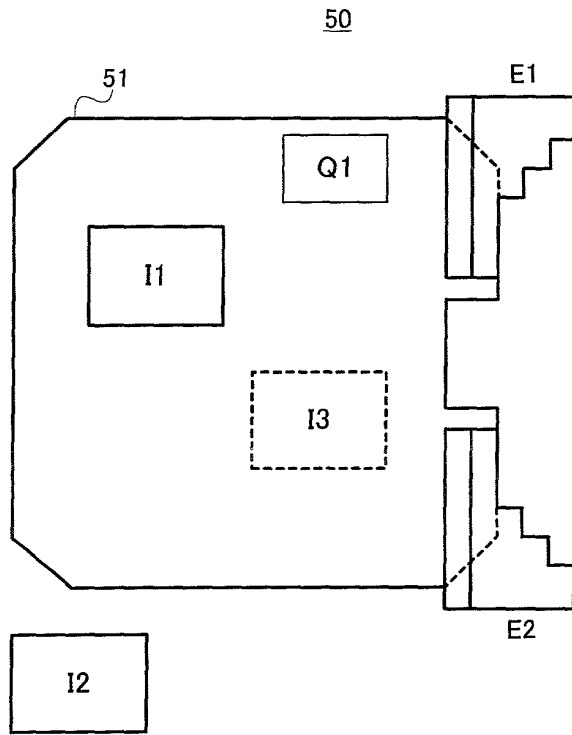


FIG.8A



3D MODELING FOR  
TWO COMPONENTS

FIG.8B

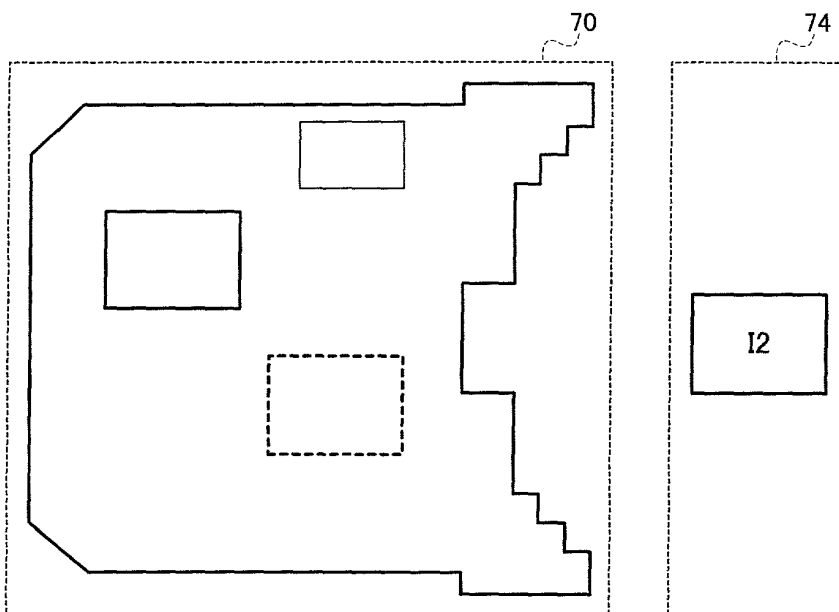


FIG.8A

FIG.9A

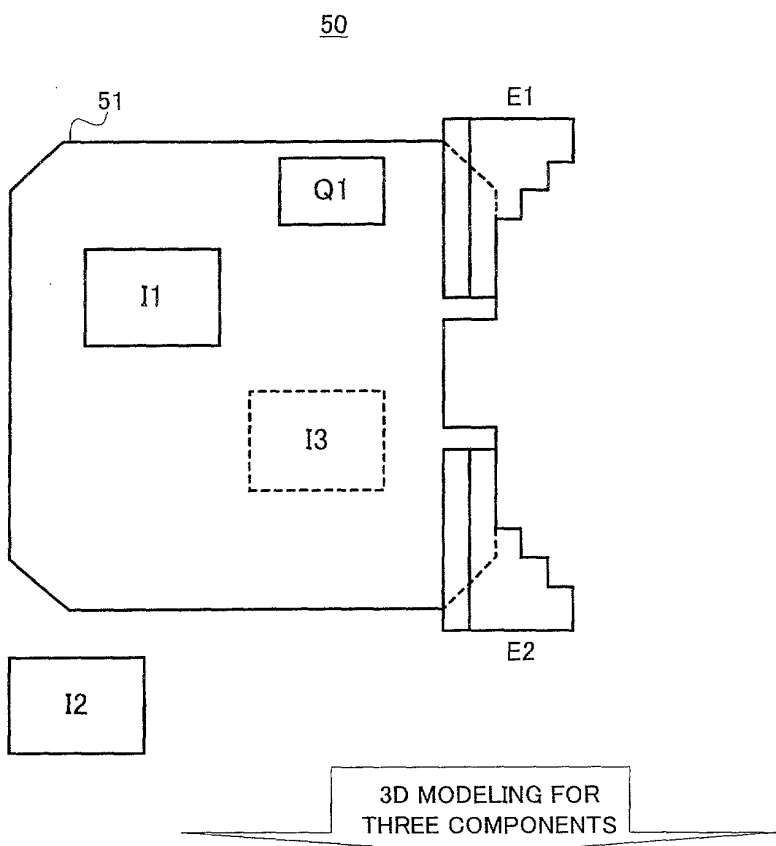


FIG.9B

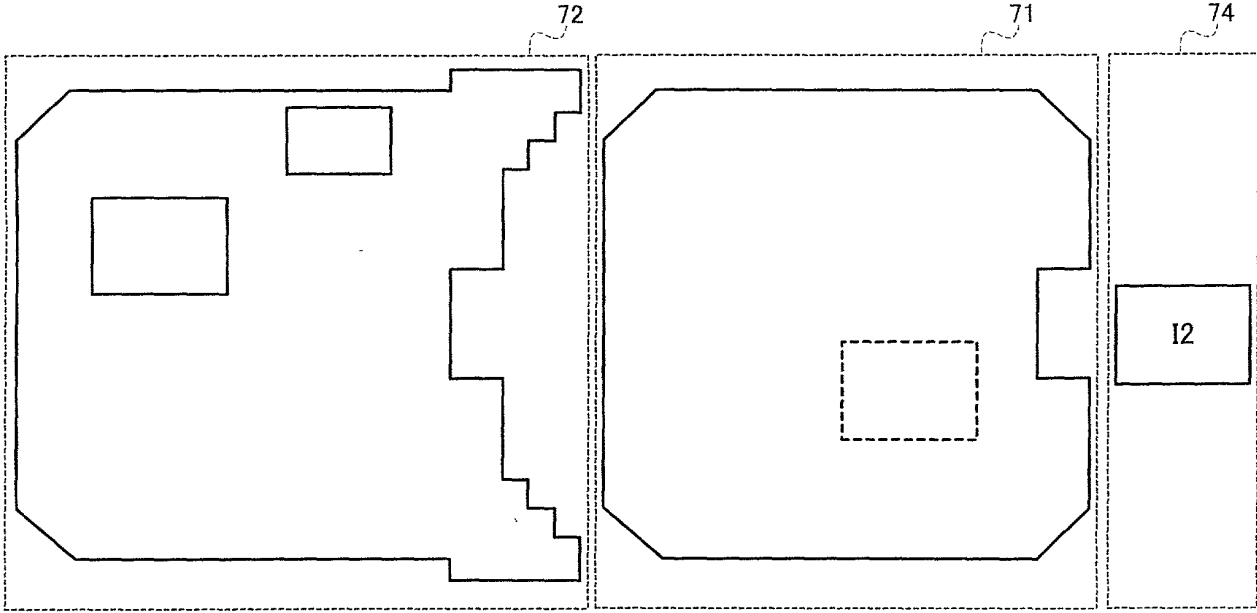




FIG.1 OA

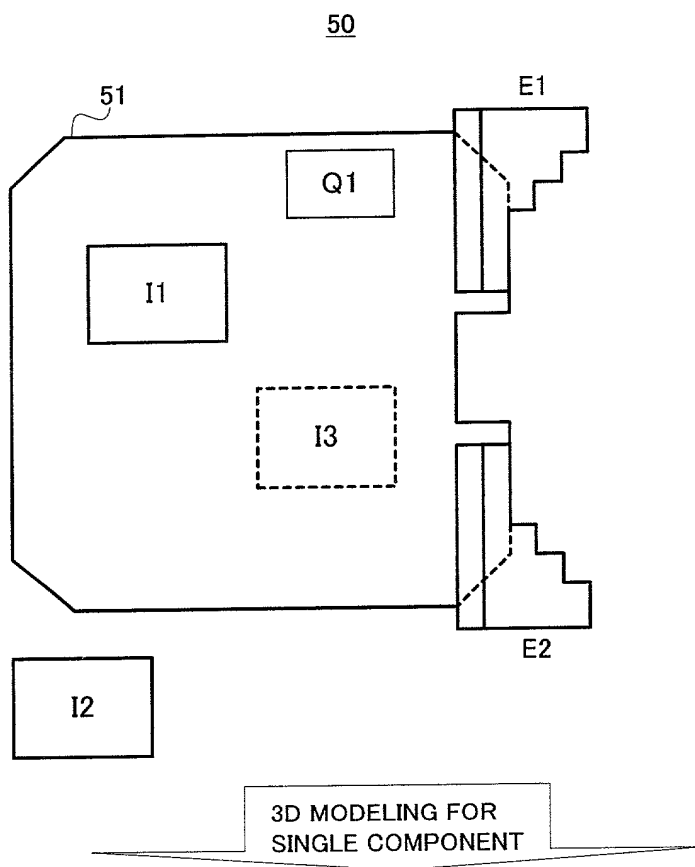


FIG.1 OB

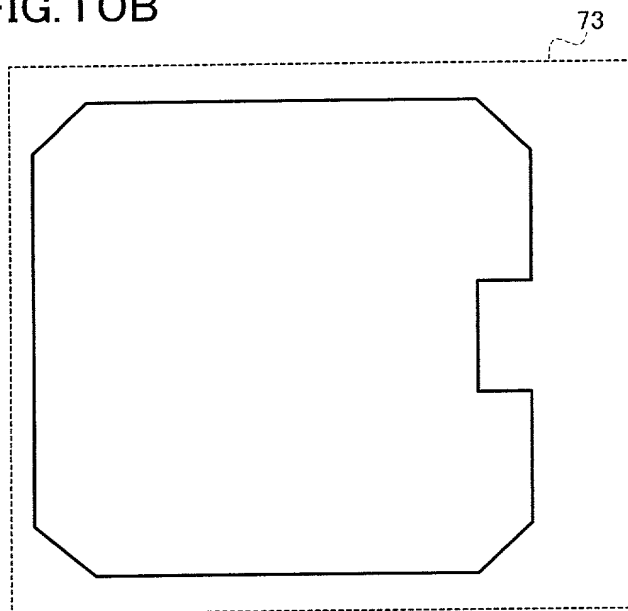
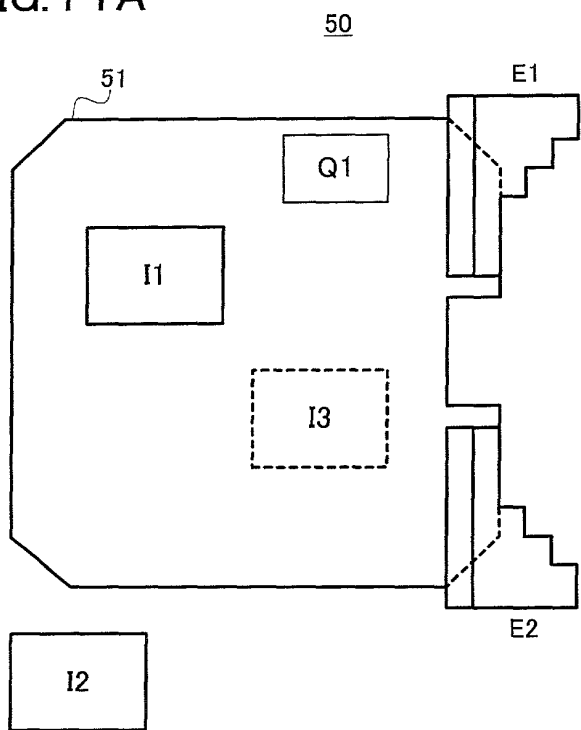


FIG.1 1A



3D MODELING FOR  
SEVEN COMPONENTS

FIG.1 1B

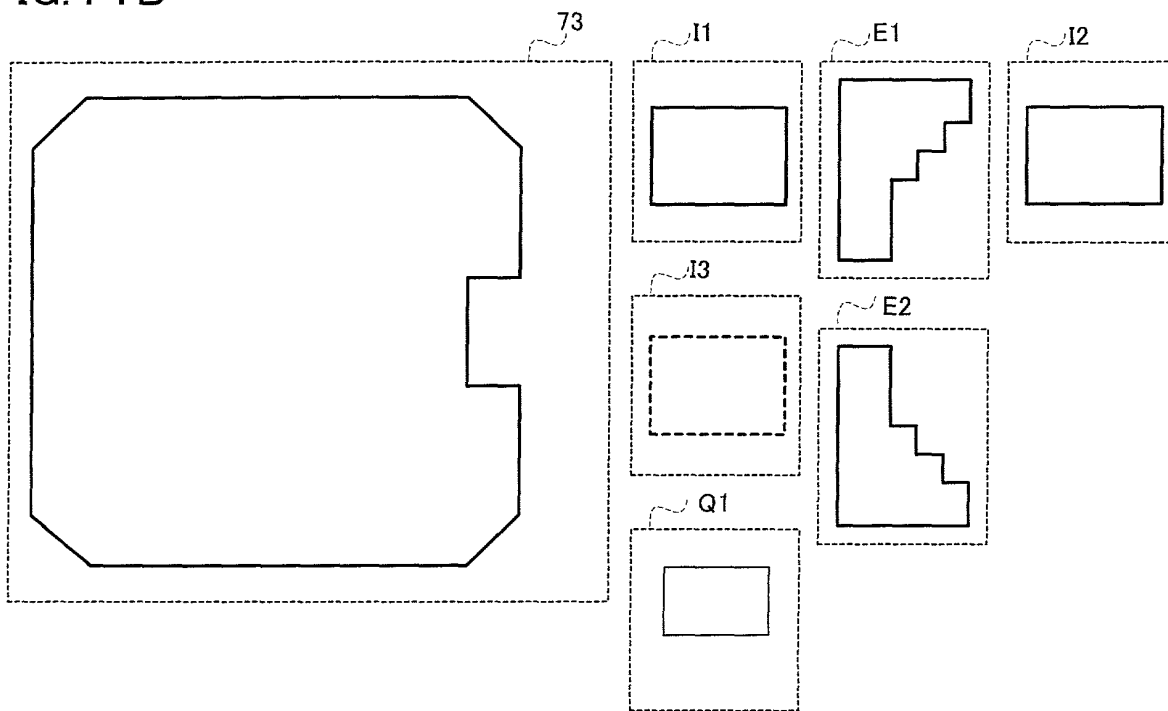


FIG. 12

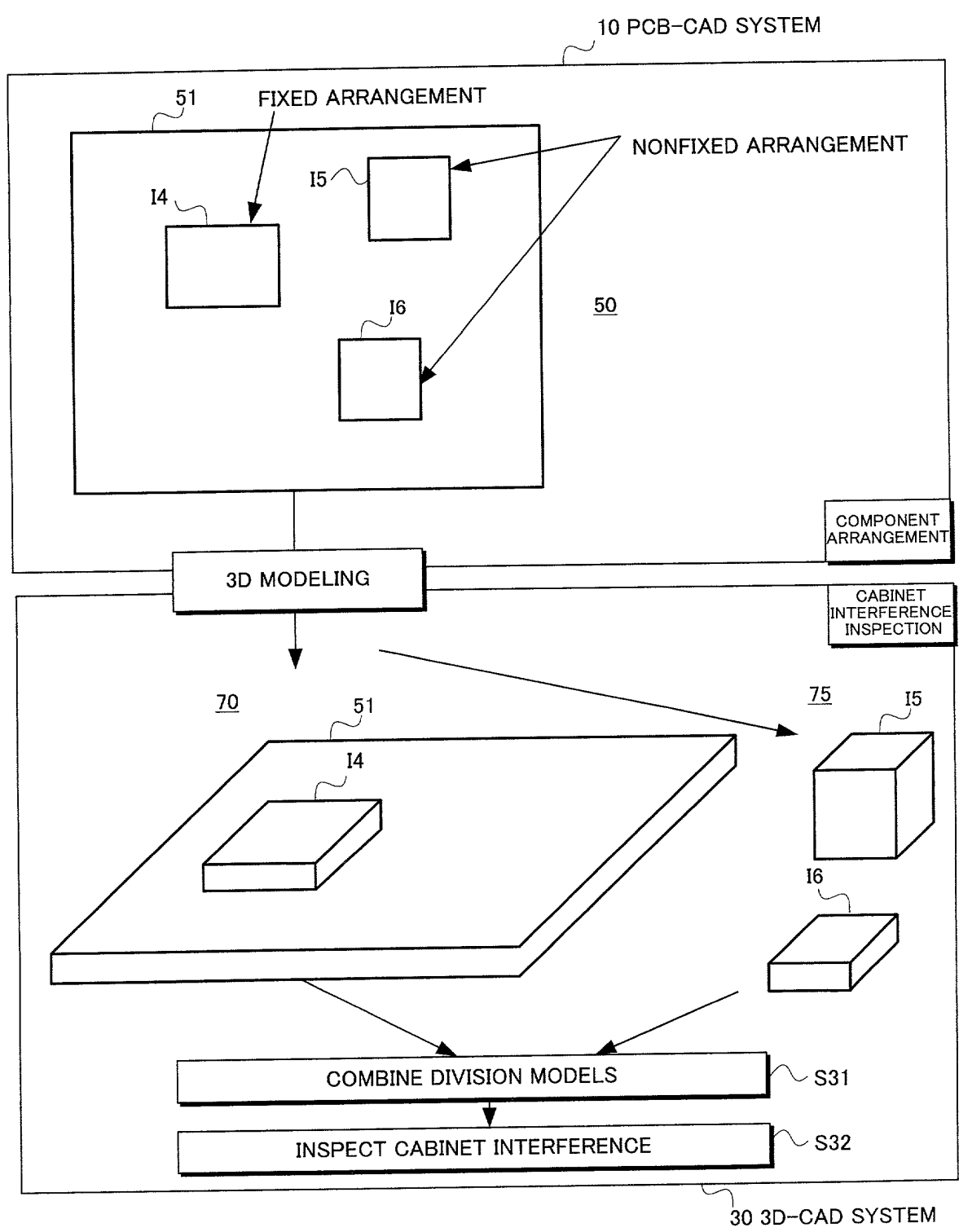


FIG.13A

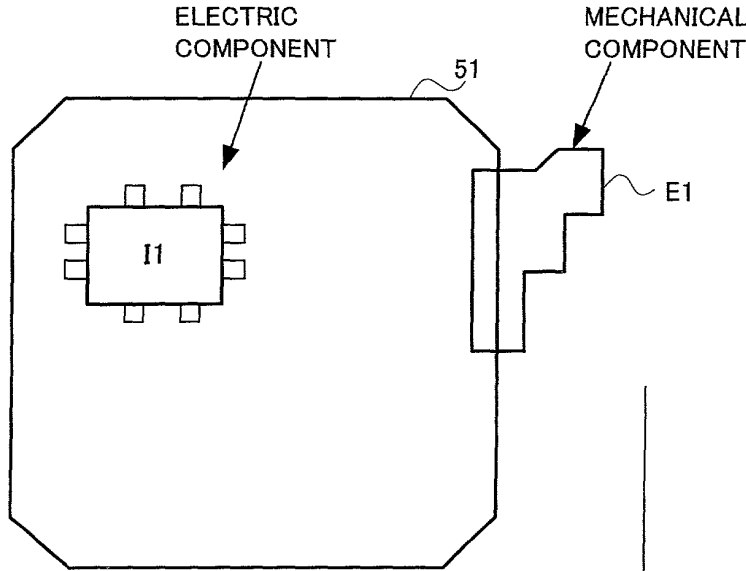
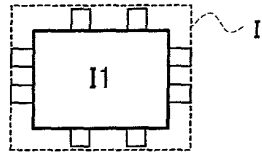


FIG.13B



3D CONVERSION BY  
ADDING HEIGHT

FIG.13C

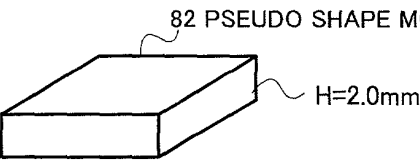
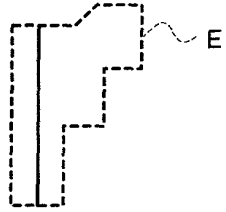


FIG.13D



3D CONVERSION BY  
ADDING HEIGHT

FIG.13E

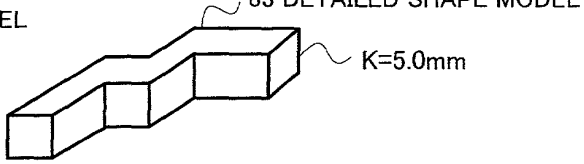


FIG. 14

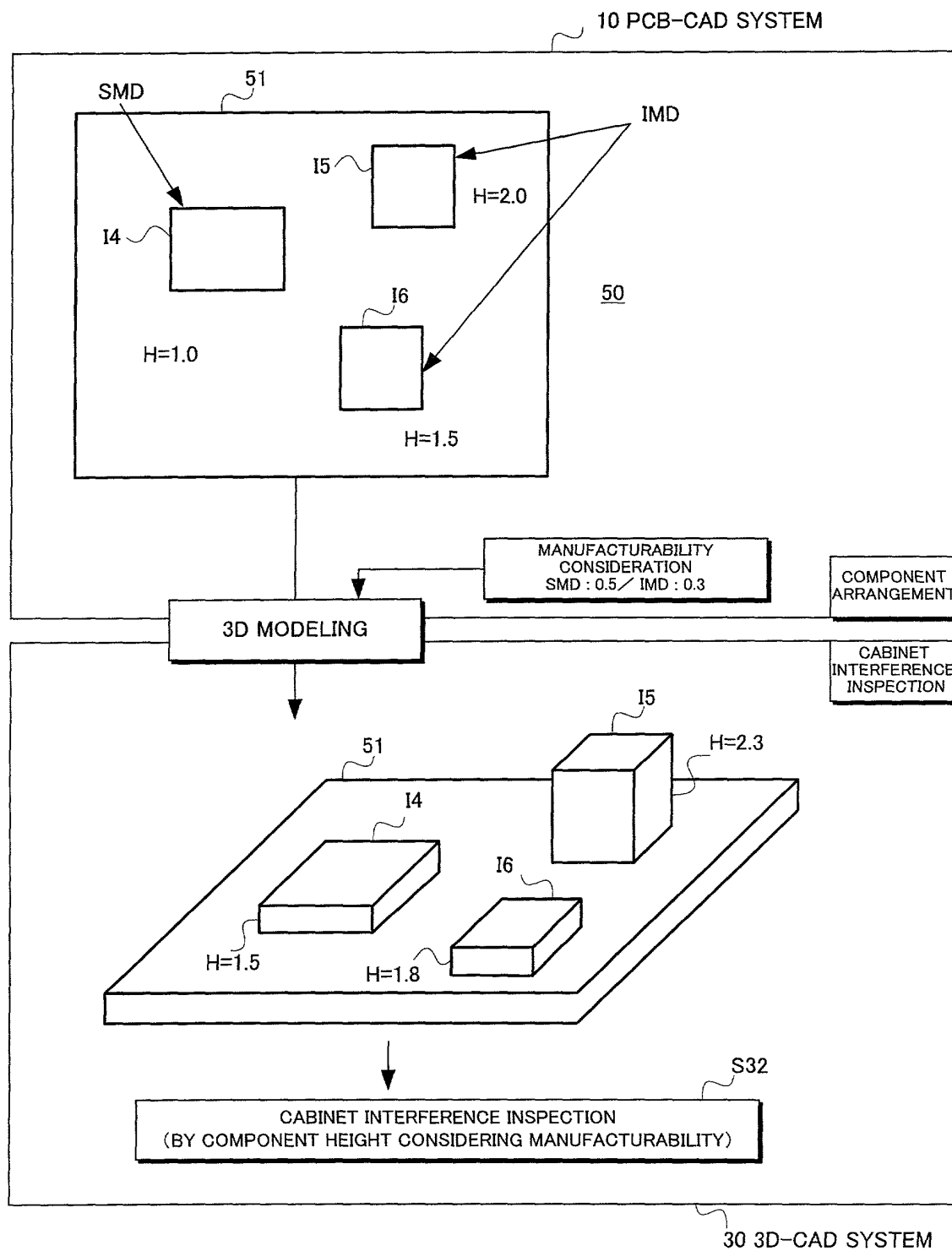


FIG.15  
PRIOR ART

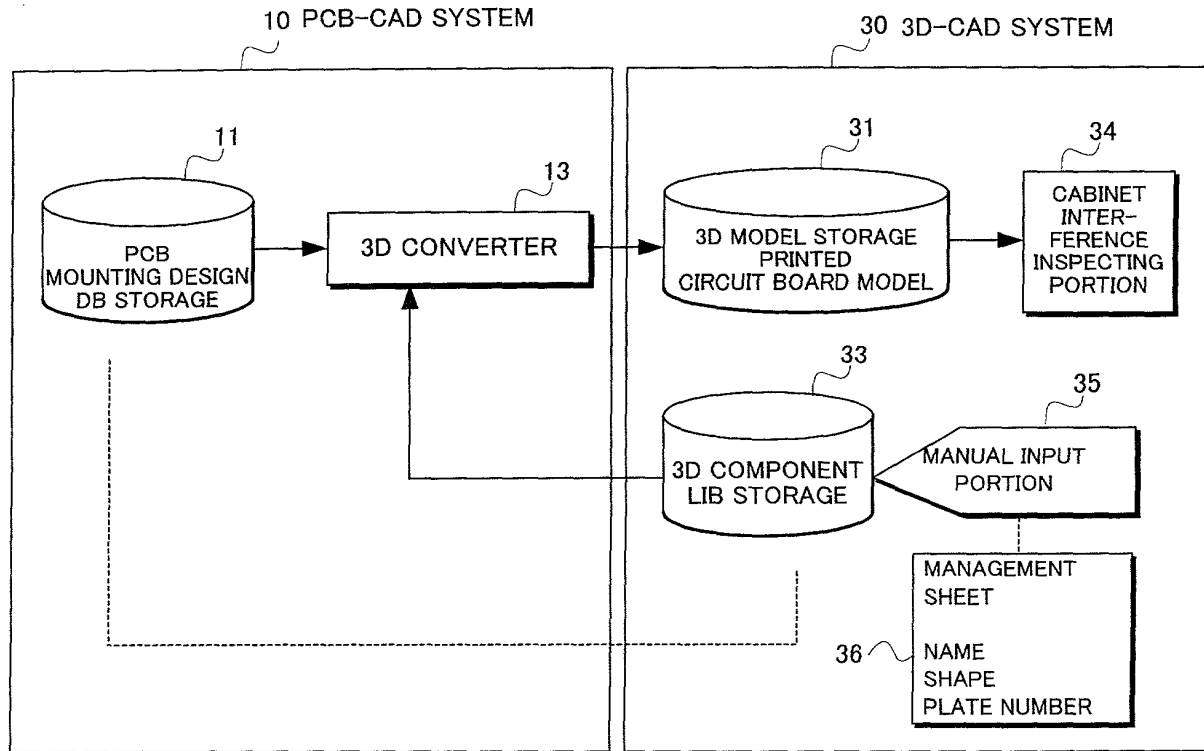


FIG.16  
PRIOR ART

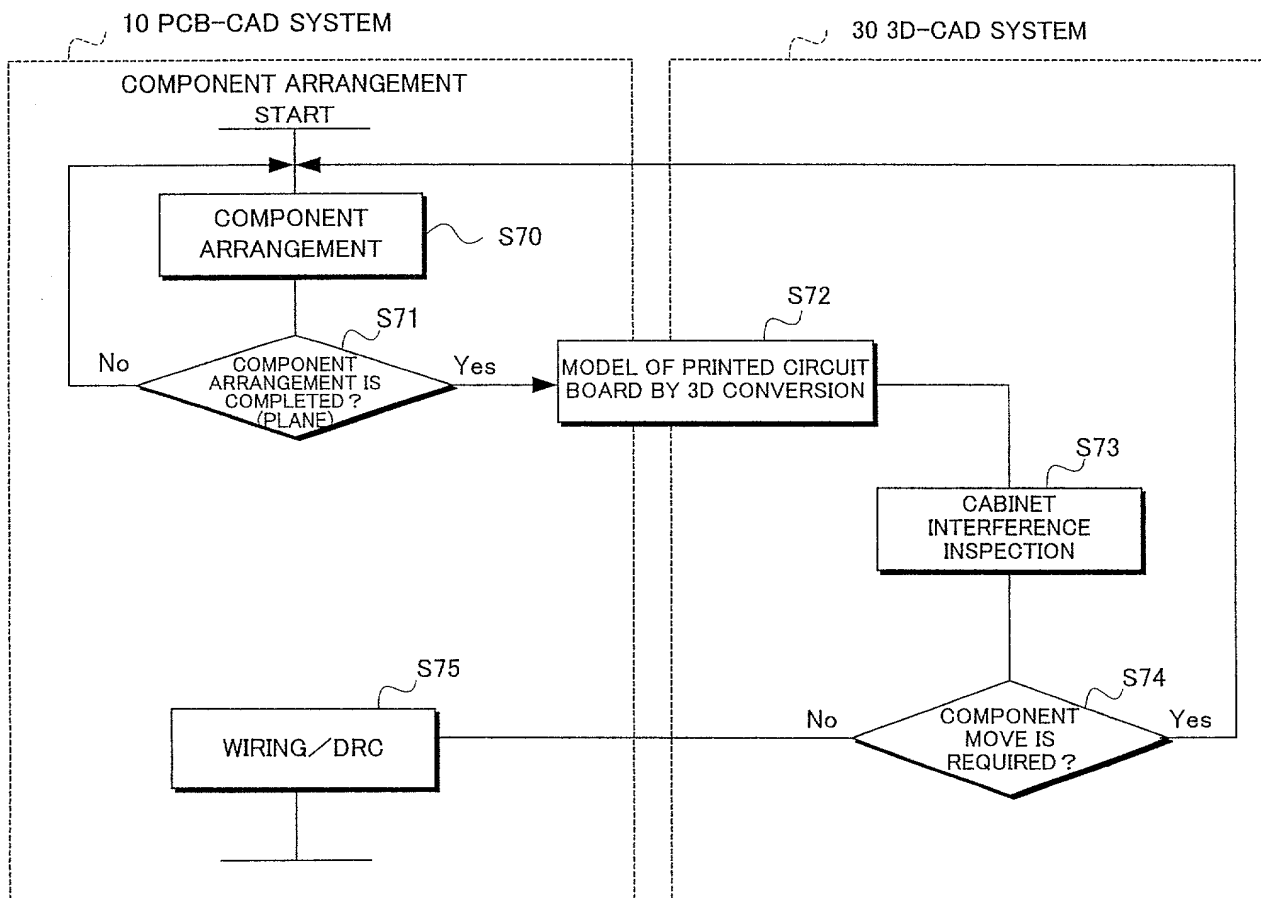


FIG. 16

FIG. 17  
PRIOR ART

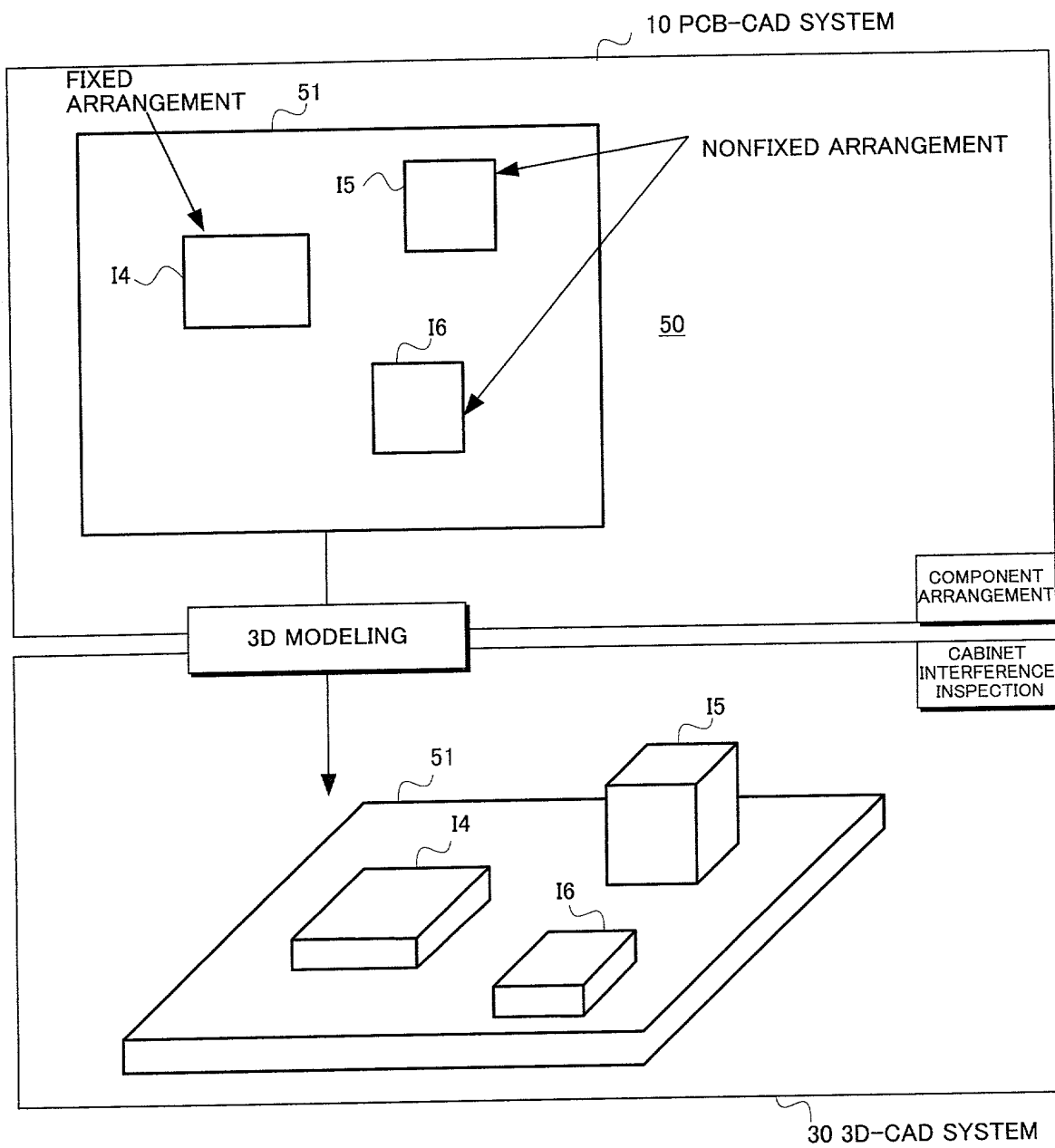




FIG.18  
PRIOR ART

